

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Masaru FUKUOKA, et al.
Application No.: New PCT National Stage Application
Filed: January 11, 2006
For: MULTICARRIER TRANSMISSION APPARATUS,
MULTICARRIER RECEPTION APPARATUS AND
MULTICARRIER COMMUNICATION METHOD

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:


Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. Copies of the art cited in the International Search Report (ISR), which issued by the JPO, are made available to the U.S. examiner in the national stage application, pursuant to MPEP 1893.03(g), and therefore copies of such art are not submitted herewith. The art cited in the ISR is listed on the attached PTO-1449 for an indication of consideration by the examiner. Copies of any other references listed on the PTO-1449, besides those cited in the ISR, are submitted herewith. The year of publication of the Slimane document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the particular month of publication is not in issue. US '508 corresponds to JP '624. The "R1-030156" document is discussed in the present application at page 1, line 25.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106.

JAP15 Rec'd PCT/PTO 11 JAN 2006

Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,



James E. Ledbetter
Registration No. 28,732

Date: January 11, 2006

JEL/spp

ATTORNEY DOCKET NO. L9289.05204

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

L9289.05204

SERIAL NO.

New PCT Nat'l Stage
Application

10/564159

APPLICANT

Masaru FUKUOKA, et al.

FILING DATE

January 11, 2006

GROUP

Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 8 3 5 5 0 8	11/1998	Kushita			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
0 7 2 0 2 8 5 2	08/1995	JP			
2001 2 3 0 7 3 5	08/2001	JP			
0 8 2 2 3 6 2 4	08/1996	JP			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PCT International Search Report dated November 2, 2004.

S. FUKUOKA, et al.: "OFDM ni Okeru Modulation Diversity Hoshiki no Tekio Interleaver ni Kansuru Kento," 2003 nen The Institute of Electronics, Information and Communication Engineers Society Taikai Koen Ronbunshu 1, Sept. 10, 2003, pg. 456.

3GPP TSG RAN WG1 #31 R1-030156, "Modulation diversity for OFDM," Feb. 21, 2003.

S. B. SLIMANE: "An Improved PSK Scheme for Fading Channels," Global Telecommunications Conference, 1996. GLOBECOM '96. Communications: The Key to Global Prosperity, Vol. 2, 1996. 11, pp. 1276-1280.

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])